



# MEMO TOWER PRO III

## 10KVA - 20KVA

True Online UPS 3:1/1:1 Phase

High Output Power Factor 0.9 or 1 (Optional)



TELE-COMMUNICATIONS DEVICES



LOCAL AREA NETWORKS (LAN)



E-BUSINESS (Servers Farms, ISP/ASP/POP)



SERVERS



CASH REGISTERS



EMERGENCY SECURITY



ELECTRO-MEDICAL DEVICES

## Highlights

- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Optimization battery group, the quantity of battery: 16/18/20pcs (32~40pcs supportable)
- Wide input voltage range: 208~478Vac
- Wide input frequency range: 40Hz~70Hz
- Input current harmonic: <3%
- Dual input source (Optional)
- Maximum charging current up to 18A (Settable)
- Support 3/1 and 1/1 operation
- Generator compatible
- ECO mode operation for energy saving
- Design with maintenance switch
- Cold start
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode
- Colorful 2.4 inch TFT LCD display
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: RS232/RS485/USB/EPO/Dry contact port (Relay card/SNMP card /Parallel cable/Battery temperature sensor optional)

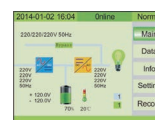


The Memo Tower Pro III Parallel Redundancy on-line series, featured with N+X parallel redundancy, DSP-controlled technology, high input & output power factors, superior input voltage window for energy saving, estimated remaining time, ECO mode, is an ideal solution to your server, bank, industrial equipment, IT equipment, communication system or other networking equipment, which is demanding for a thorough protection.

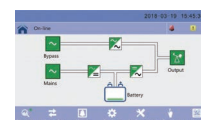
## LCD/LED Display Panel (optional)



Segment LCD



TFT Colorful LCD



7 inch Colorful LCD

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MODEL		MP31 Pro 10k H	MP31 Pro 10k S	MP31 Pro 15k H	MP31 Pro 15k S	MP31 Pro 20k H	MP31 Pro 20k S
Capacity	PF0.9	10kVA / 9kW		15kVA / 13.5kW		20kVA / 18kW	
	PF1.0	10kVA / 10kW		15kVA / 15kW		20kVA / 20kW	

### INPUT

Nominal voltage	380/400/415Vac (3PH+N+PE) 220/230/240Vac (L+N+PE)
Operating voltage range	208~478Vac ; 120~276Vac
Operating frequency range	40~70Hz (50/60Hz Auto-Sensing)
Power factor	≥0.99
Harmonic distortion (THDi)	≤3% Linear load
Bypass voltage range	Max.voltage:220V+25% (Optional+10%,+15%,+20%) 230V+20% (Optional+10%,+15%) 240V+15% (Optional+10%)
	Min.voltage:-45% (Optional-10%,-20%,-30%)

### FREQUENCY

Frequency protection range	50/60Hz±10%
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### OUTPUT

Output voltage		220/230/240Vac (L+N+PE)		
Voltage regulation		±1%		
Power factor		0.9 or 1.0 (Optional)		
Output frequency	Line mode	±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional)		
	Bat. mode			
Transfer time	AC mode to Bat.mode	0ms		
	Inverter to Bypass	0ms		
Output waveform		Pure Sinewave		
Crest factor		3:1		
Harmonic distortion (THDv)		≤2% Linear load		
		≤5% Non linear load		
Overload	AC mode	Load≤110%: last 60min turn to bypass; ≤125%: last 10min turn to bypass; ≤150%: last 1min turn to bypass; ≥150% turn to bypass mode immediately		
	Bat.mode	Load≤110%: last 10min; ≤125%: last 1min; ≤150%: last 5s; ≥150% shut down UPS immediately		
	Bypass mode	Breaker 2x32A Breaker 2x50A Breaker 2x63A		

### EFFICIENCY

Efficiency	up to 93.5%	up to 94.5%
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### BATTERY

Battery voltage	Standard unit	±120Vdc (20pcs 9Ah) (20pcs 7Ah、 2x20pcs 7/9Ah optional)		±120Vdc (2x20pcs 9Ah) (2x20pcs 7Ah optional)			
	Long run unit	±96Vdc~±120Vdc (16~20pcs, 16pcs default, Standard unit and 20pcs no power derating; 18pcs output power factor 0.9; 16pcs output power factor 0.8)					
		±192/204/216/228/240Vdc (32/34/36/38/40pcs supportable)					
Charging current	14A Max.		1.35A(2.7A optional )	16A Max.	2.7A	18A Max.	2.7A
	charging current can be set according to battery capacity						

### PHYSICAL

Dimension W x D x H (mm)	H: 250 x 580 x 655 ; S: 250 x 900 x 868		
Net weight (kg)	33/125	37/180	38/181

### ENVIRONMENTAL

Operating temperature	0C~40C	
Storage temperature	-25C~55C	
Humidity range	0~95% (Non condensing)	
Altitude	<1500m,derating required when>1500m	
Noise level	<55dB at 1 Meter	<58dB at 1 Meter

### STANDARDS

Safety	IEC/EN62040-1,IEC/EN62477-1
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8



- All specifications subject to change without notice.
- Custom-made specifications are acceptable.
- Manufactured by factory with ISO 9001, ISO 14001, OHSAS 18001, CE, STANDARD